

**WE CLAIM:**

1. A method to treat a brain tumor comprising administering a therapeutic amount of a composition comprising:
  - 5 a compound of the general formula  $\alpha(\text{VIPR2})$ , wherein  $\alpha(\text{VIPR2})$  is one or more moieties which specifically binds to a human vasoactive intestinal peptide receptor-2, wherein the binding of  $\alpha(\text{VIPR2})$  alters the function of the vasoactive intestinal peptide receptor-2,
  - and a pharmaceutically acceptable carrier.
- 10 2. The method of claim 1 wherein the therapeutic composition is administered by intrathecal administration.
3. The method of claim 1 wherein the therapeutic composition is administered by intravascular administration.
4. The method of claim 1 wherein the brain tumor is a glioblastoma..
- 15 5. The method of claim 1 wherein  $\alpha(\text{VIPR2})$  is selected from the group consisting of an antibody and an antibody fragment.
6. The method of claim 1 wherein the composition is administered as a single dose.
7. The method of claim 1 wherein the composition is administered as a series of doses over a period of time.
- 20 8. The method of claim 1 wherein  $\alpha(\text{VIPR2})$  further comprises attached thereto one or more cytotoxic moieties C,.
9. The method of claim 8 wherein the therapeutic composition is administered by intrathecal administration.
10. The method of claim 8 wherein the therapeutic composition is administered by intravascular  
25 administration.
11. The method of claim 8 wherein the brain tumor is a glioblastoma.

12. The method of claim 8 wherein  $\alpha$ (VIPR2) is selected from the group consisting of an antibody and an antibody fragment.
13. The method of claim 8 wherein C is a radioactive moiety.
14. The method of claim 8 wherein C is a chemotoxic moiety.
- 5 15. The method of claim 8 wherein C is a toxin protein moiety.
16. The method of claim 8 wherein the composition is administered as a single dose.
17. The method of claim 8 wherein the composition is administered as a series of doses over a period of time.

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